Bufftech Micro Instruction Series

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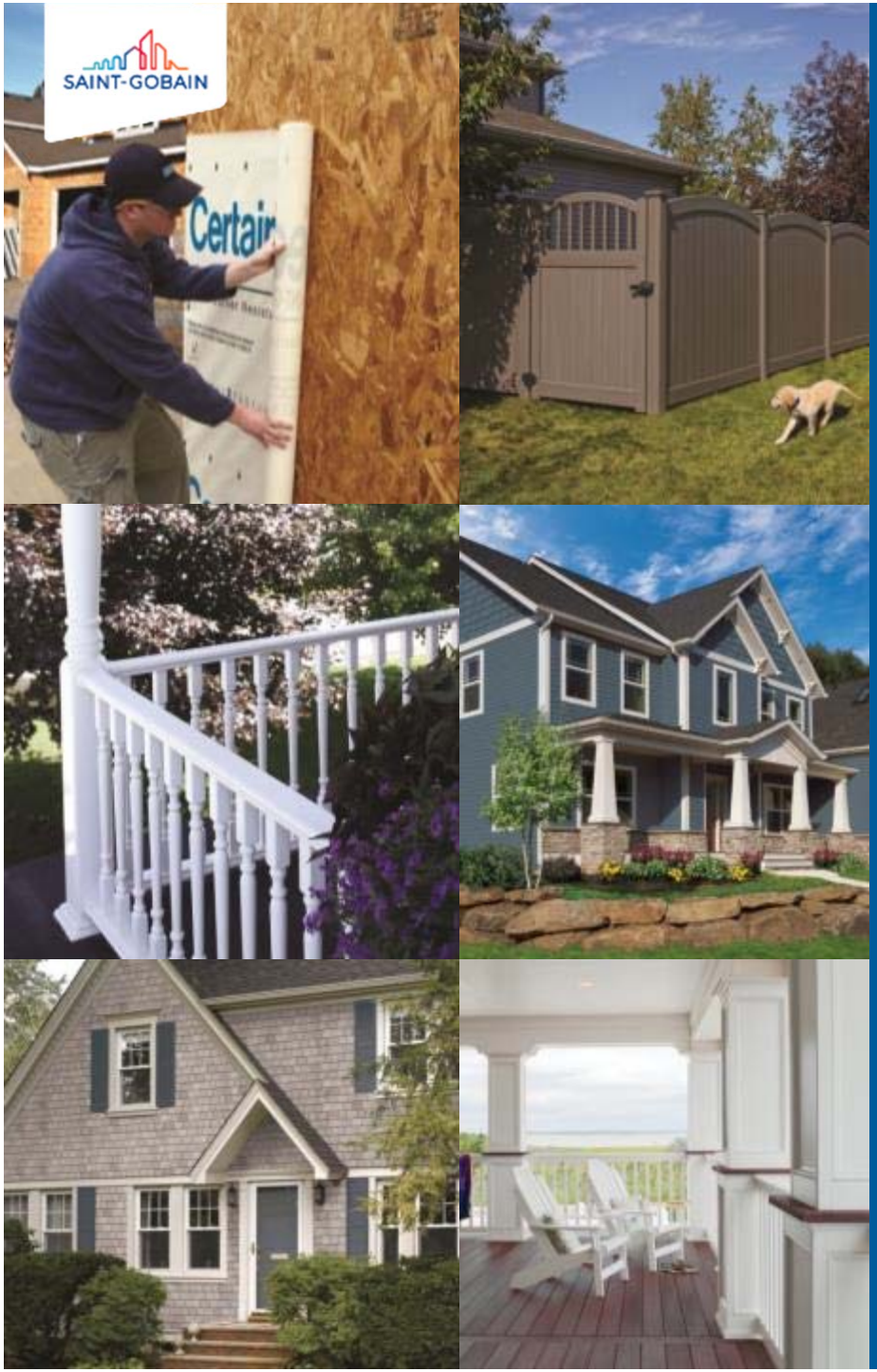

Breezewood Field Routing Template and Jig Fixture

Instructions for field use

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Breezewood
Horizontal Fence

Breezewood field fabrication

- Breezewood is a horizontal semi-privacy fence designed for stepping applications
- Special factory routing is available with the dealer supplied specifications
- To step Breezewood the post may require field routing
- Template is available to route the following;
  - Blank post into end post, line post or corner post
  - Transition post example: 6 foot high to 5 foot high
  - Step down post example: 4 inch drop down to follow grade change

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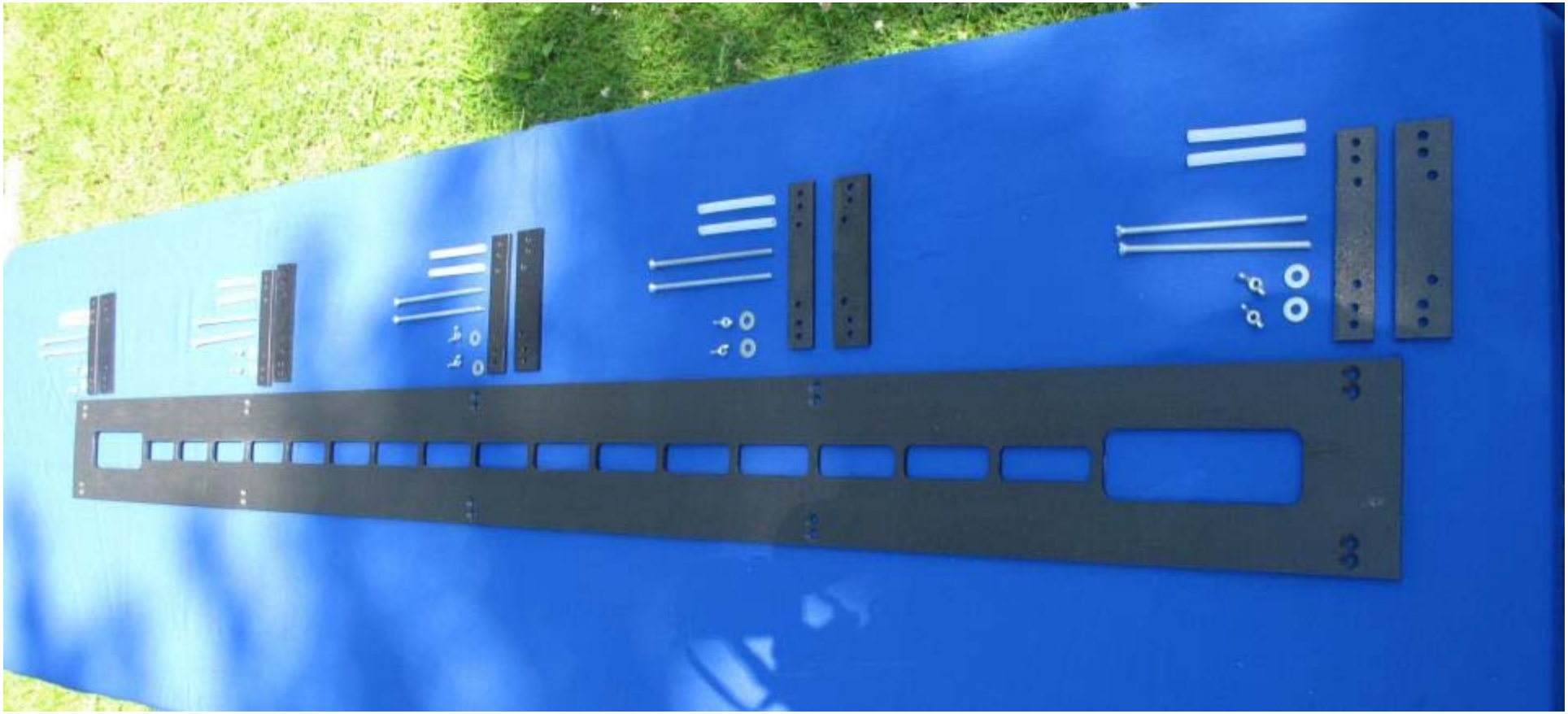
Agenda

- With this presentation you will learn how to:
  - Safely work with the router and template
  - Assemble the template kit
  - Router each post with the template
  - Figure hole positions on post
  - Safest type of router to use

Contents …Breezewood Template Kit



Breezewood template kit

- Kit includes
- 1 template
- 3 hardware bags (6 clamping units)

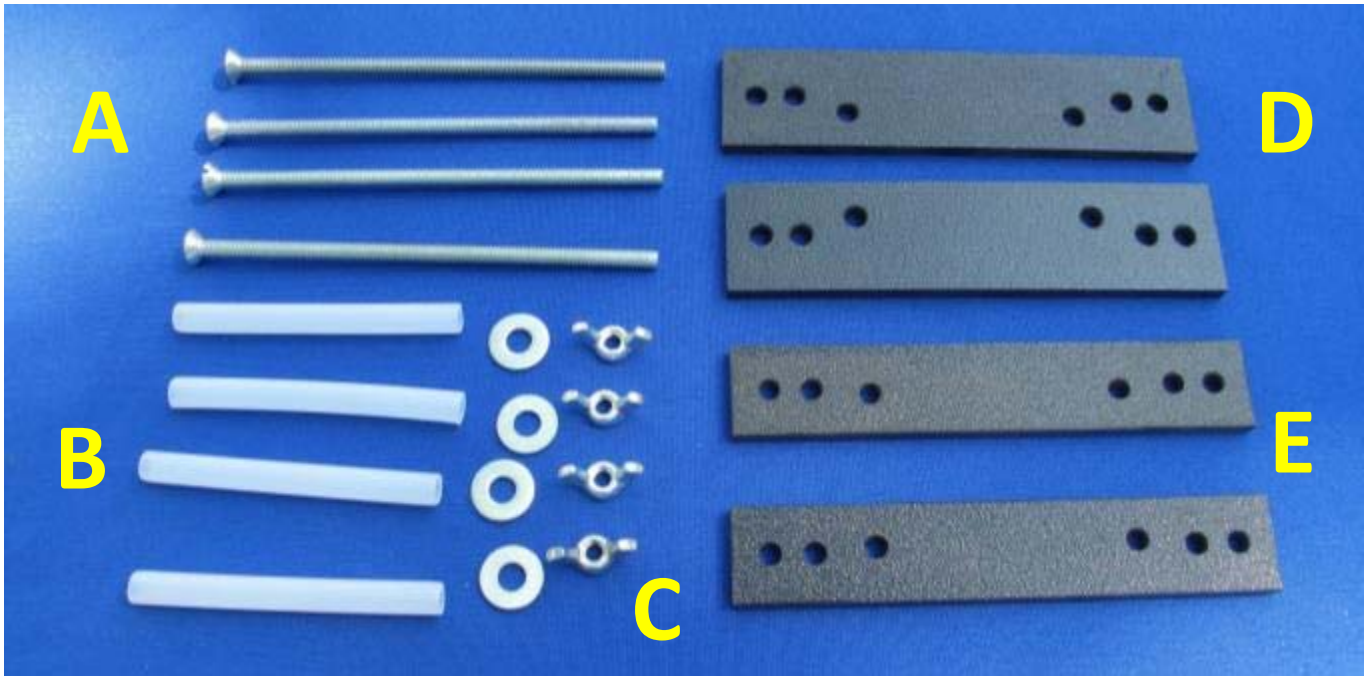
- Router bits sold separately
- Note:

  Router bit required, 3/8" straight flute, ¼" shank

  Bearing guide required low crown 5/8" x ¼" high

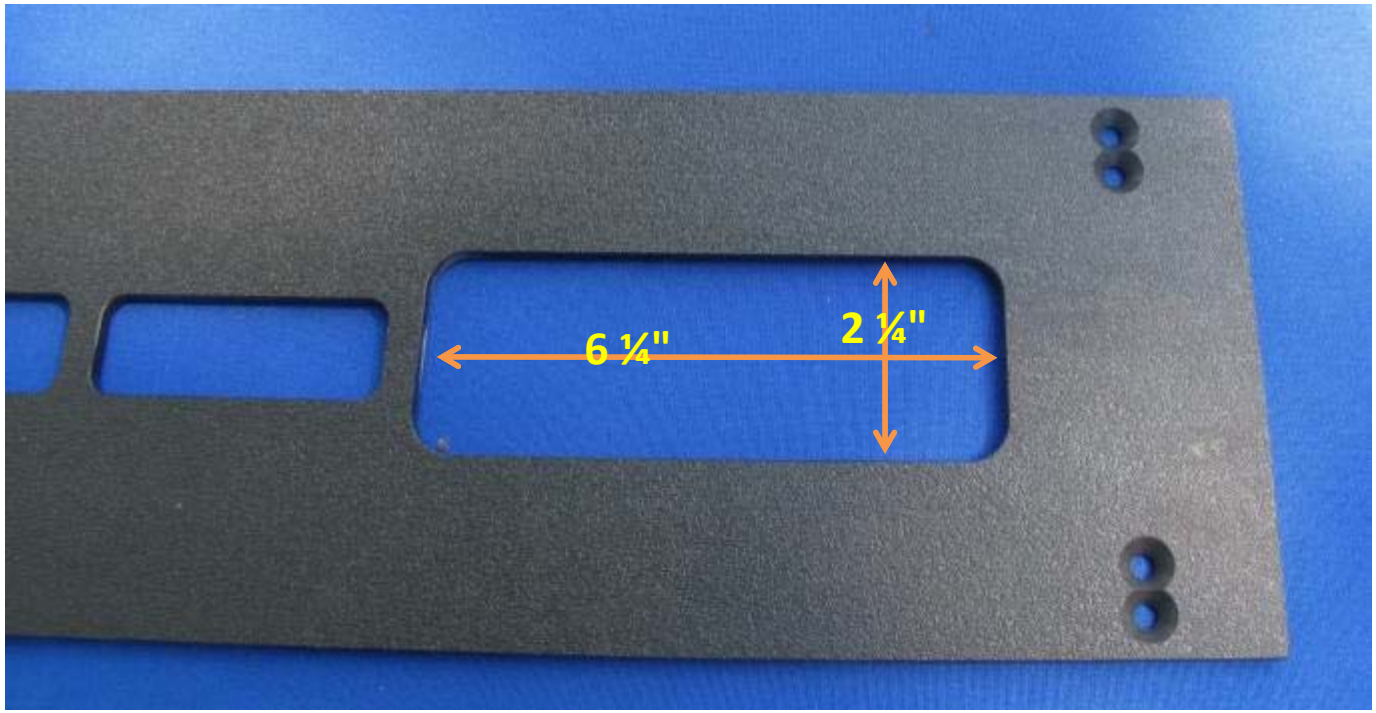
  Manufacturers of routers will have bearing guides specific to their own brand of router)

Contents…Breezewood template kit hardware bag



A - ¼" Bolts
B - Hollow plastic tubes to protect the PVC post from the screw threads
C - ¼" Wing nuts and washers
D – bottom clamping plates
E - Top spacer to prevent PVC chip build up

Template layout



Routing a 4 x 4 post
Use the inside countersink holes to center the template on the post

To center on 5" x 5" Post use the outside holes

The template is designed with the routing pattern for 6 foot high Breezewood
Other heights will be addressed in this presentation
The 2 x 6 hole measures 2 ¼" x 6 ¼" this allows room for the bushing or template guide to travel the perimeter of the template hole, cutting the exact 2" x 6" hole in the post
The 7/8" x 3" is also a ¼" larger in both directions for a 7/8" x 3" hole.

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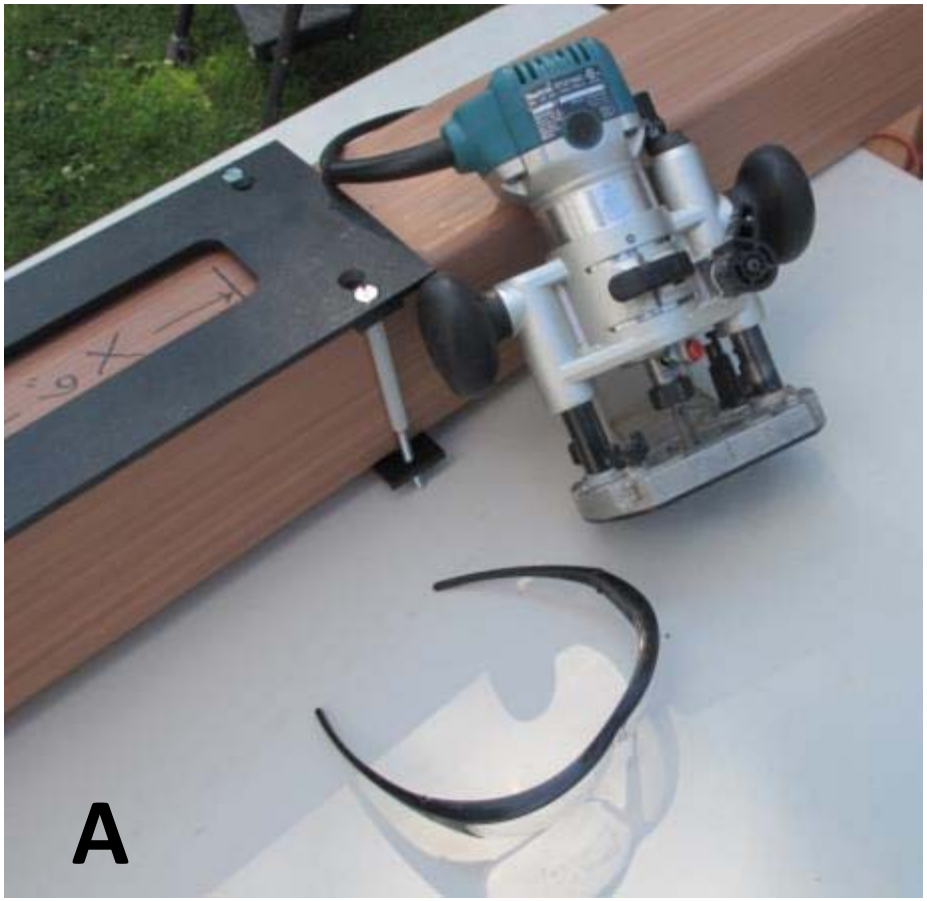
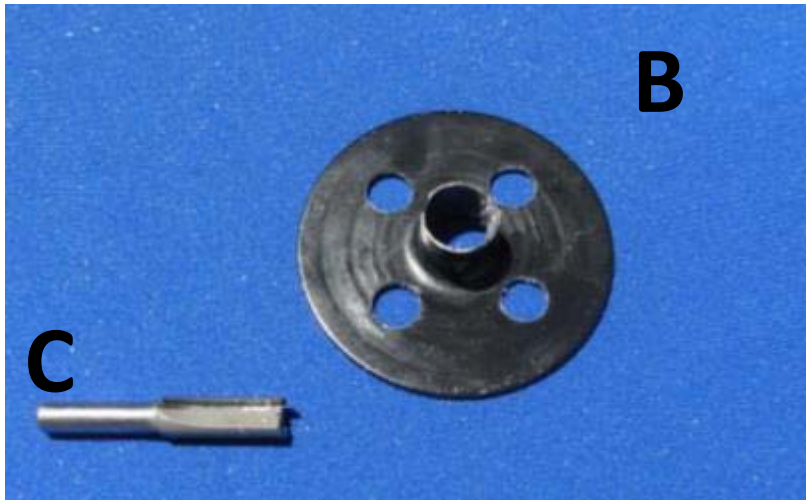
Recommended Tools
Best Practices



A - Plunge router is the safest router to use because the blade retracts when not in use. Always use safety glasses around machinery.



B – 5/8" Template Guide with ¼" deep protrusion to ride around template cut- out.
Each manufacturer will have their own version of the Template Guide.

C – Straight flute 3/8" carbide tip router bit with ¼" shank to fit in router collet

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Assemble the Template

Insert ¼" bolts through outer countersink holes in template
Slide small spacer bar over bolts
Slip protective tubes over bolts
Repeat for remaining 4 sets of hardware

Do not install clamps

Overview

Partial fixture shown

Mark post

Lay in Jig

Loosely attach clamps and wing-nuts

Turn Jig over accurately line up holes

Tighten bolts

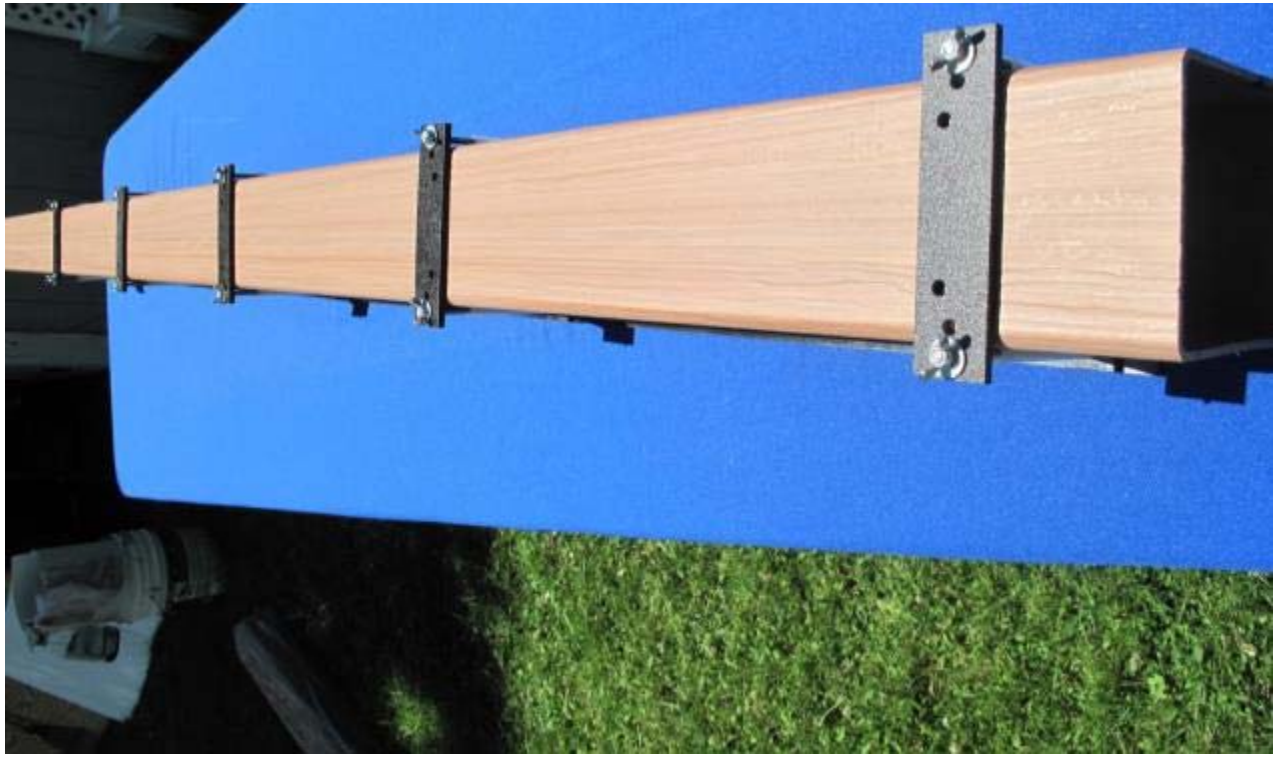
Route post

Post Preparation

Mark post - measure down 3" from top of post
Mark post with 6" long hole- indicate with X in center

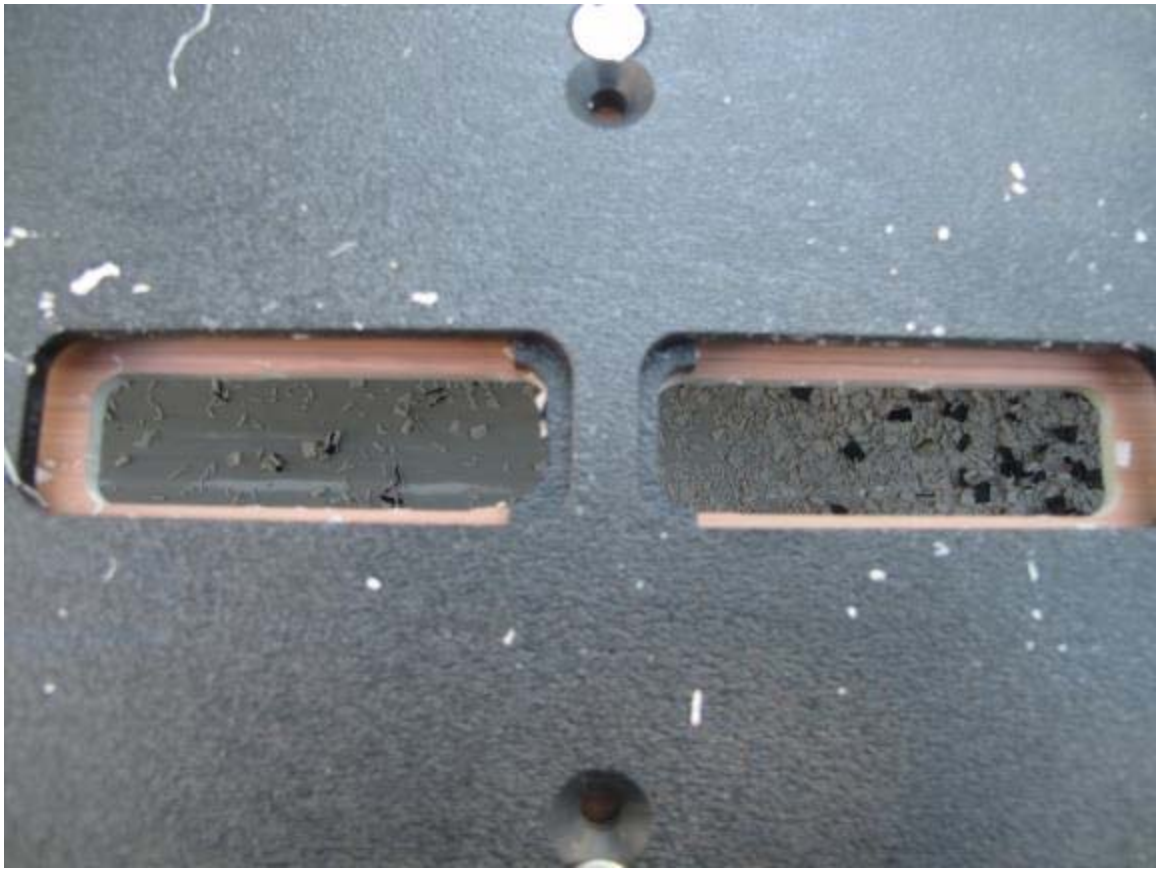
Lay post face down on template with measured hole facing down.
Finish assembling the clamping plates and hardware.
Install but do not tighten bolts.

Center the template cut-out hole over the marked 2 x 6 hole.
All the other holes will fall in place automatically.



Tighten wing nuts on all bolts.

Ready to Route Holes



Note:
Three of the spacer bars will protrude into the 3" holes on either side.
Use the template guide with the ¼" deep protrusion and cut
through the spacer bar and the post at the same time. This will leave
the shape shown in the picture and will only need to be done one time at each
of the three points.

Router Post

Position plunge router on template so that the guide is in the hole and the base sits flat on the template.
Plunge the router down into the post, and move the router in a clockwise direction letting the guide follow the outside edge of the template hole.
Go around a second time to make sure hole is cleaned out.
Make sure blade is fully retracted before removing router from hole.

Route Post

Continue routing all holes – clean out chips
Remove post from template by loosening the wing nuts

Determine Post Configuration

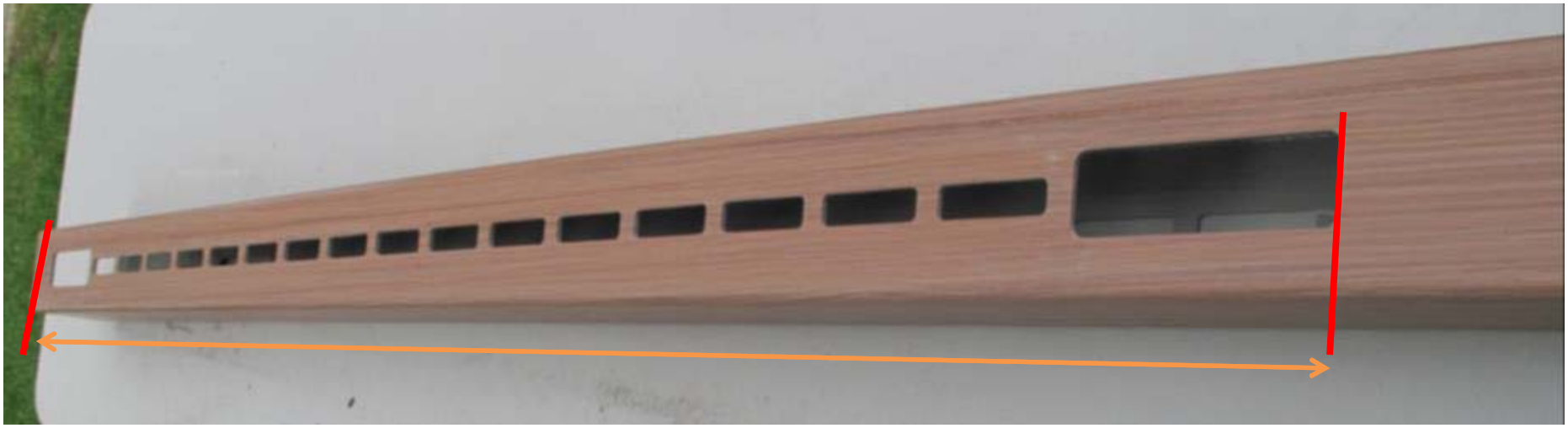
Turn end post into line or corner post

Rotate post
Measure 3" from top
Mark the 6" hole
Slide template over side of post to be routed
Center top 2 x 6 hole over the marked hole on the post
Make sure template clamps are secured
Route post

Determine Post Configuration

For Transition Post – example 6 foot to 5 foot

Note – in this configuration the bottom rails will line up.



Measure from top of post to bottom of 2 x 6 cut out.
Determine which side of post to route.
On blank side transfer measurement down from top of post
Measure back for 2 x 6 hole and mark post
Position template over post and center on hole cut-out
Router the 2 x 6 hole and then for the 5 foot high route 13 of the 7/8" x 3" holes only
To route a 4 foot high side route only 10 of the 3/8" holes

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Route Top Hole on 5 Foot Side

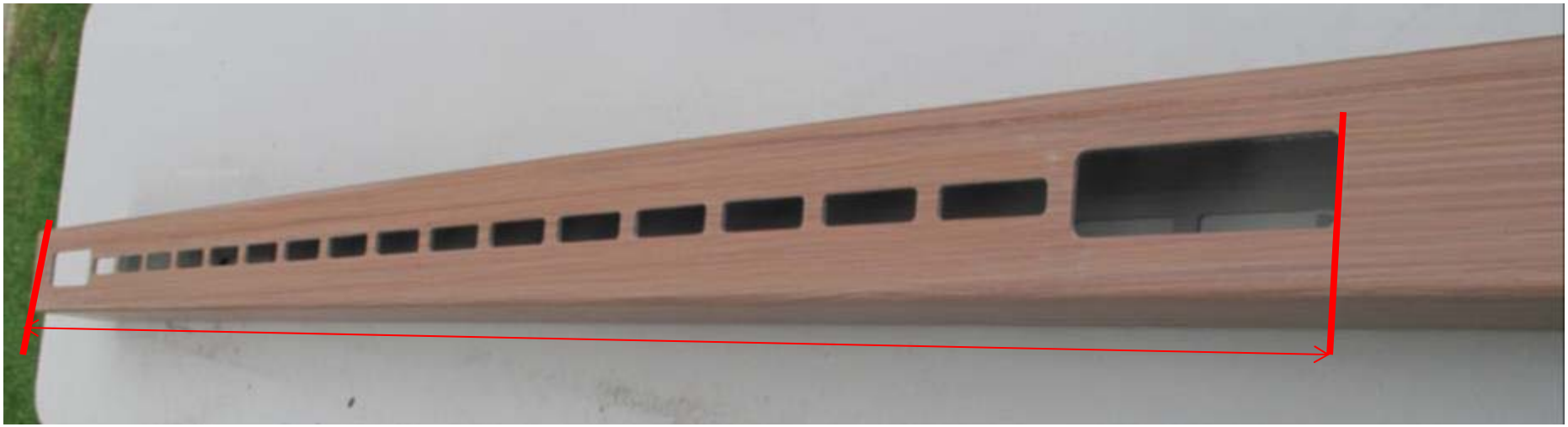
For Transition Post – example 6 foot to 5 foot

Note – in this configuration the bottom rails will line up.

Loosen template and slide up post until last 7/8" x 3" hole cut-out is centered on post

This will position the top 2 x 6 hole in the correct place.

Routing a Step Down Section



Measure down from top of routed post to bottom of 2 x 6 hole
Example 75"
Determine drop to be routed on opposite side of post
Example 5"
Rotate post to side to be routed measure down both totals
Example 80"
From the 80" mark measure back for the 2 x 6 hole
Center the template over the 2 x 6 mark and router the holes.

Example of step down post